

IN THE CLAIMS

1. (currently amended) An electric heater with a sensor for preventing no-water heating comprising:

a heating plate provided with a vertical hole, having a heating film electro-plated on a lower surface and two silver terminals fixed with said heating film for connecting with wires[[:]];

a water level probe fixed in said vertical hole of said heating plate for detecting the water level of the water stored in a water tank on said heating plate, producing alteration of electric potential in case of sensing a very low water level, wherein said alteration of electric potential is fed to a control circuit, said control circuit then ~~operating~~ operates to automatically ~~cutting cut~~ power off said electric heating film, ~~with using safety of said heater enhanced~~.

2. (currently amended) The electric heater with a sensor for preventing no-water heating as claimed in Claim 1, wherein a metal plate is additionally provided on said heating plate.

3. (currently amended) ~~The~~ An electric heater with a sensor for preventing no-water heating as claimed in Claim 1, wherein comprising:

a heating plate having a heating film electro-plated on a lower surface thereof and two silver terminals fixed with said heating film for connecting with wires;

a sensing electrode is provided under on the lower surface of said heating plate for sensing the water level of the water stored in a water tank on said heating plate, producing alteration of electric potential in case of sensing a very low water level, wherein said alteration of electric potential is fed to a control circuit, said control circuit then operates to automatically cut power off said electric heating film.

4. (currently amended) The electric heater with a sensor for preventing no-water heating as claimed in Claim 3, wherein a metal plate is additionally provided on said heating plate.

5. (currently amended) ~~The~~ An electric heater with a sensor for preventing no-water heating as claimed in Claim 1, wherein comprising:

a heating plate having a heating film electro-plated on a lower surface thereof and two

silver terminals fixed with said heating film for connecting with wires, wherein the heating plate has a recess on the lower surface;

a water level sensor ~~with~~ and a temperature fuse are provided under in the recess on the lower surface of said heating plate for sensing water level of the water stored in a water tank on said heating plate, producing alteration of electric potential in case of sensing a very low water level, wherein said alteration of electric potential is fed to a control circuit, said control circuit then operates to automatically cut power off said electric heating film.

6. (currently amended) The electric heater with a sensor ~~for~~ preventing no-water heating as claimed in Claim 5, wherein a metal plate is additionally provided on said heating plate.

7. (currently amended) The electric heater with a sensor ~~for~~ preventing no-water heating as claimed in Claim 1, wherein said heating plate is cylindrical.

8. (currently amended) The electric heater with a sensor ~~for~~ preventing no-water heating as claimed in Claim 1, wherein said heating plate has a recess.

9. (currently amended) The electric heater with a sensor ~~for~~ preventing no-water heating as claimed in Claim 1, said heating plate has a projection.

10. (currently amended) The electric heater with a sensor ~~for~~ preventing no-water heating as claimed in Claim 1, wherein said control circuit includes an A / D amplifying circuit, which magnifies signals coming from said water level probe, ~~said sensing electrode or said water level sensor and said temperature fuse,~~ and then sends the magnified signals to a switch, said switch automatically cutting ~~cuts~~ off the power of said heating film ~~in case of~~ when receiving the magnified signals, ~~preventing said heating film from heating with few or no water and keeping using safety of said heater.~~